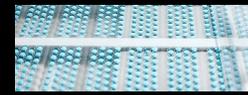
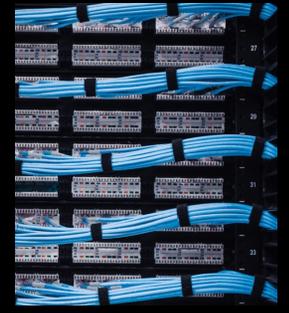


InterSystems IRIS for Space Debris Identification and Tracking: SINTRA



George Hou | National Accounts Manager,
Managing Director





InterSystems

1978

Founded

80+

Countries

7M+

Production
Licenses

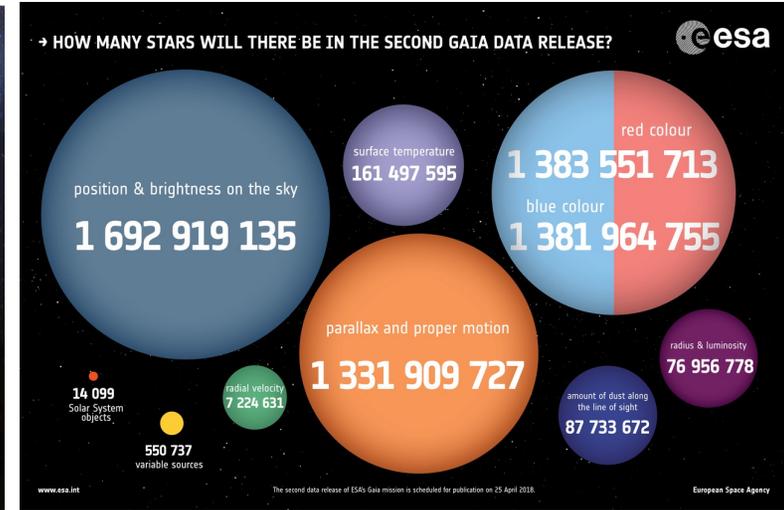
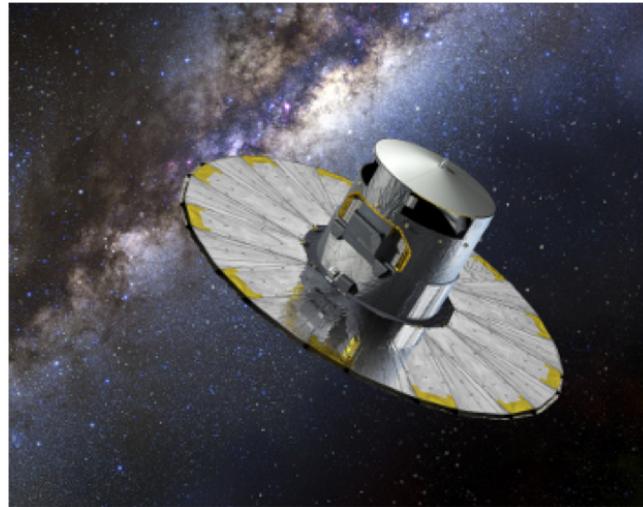
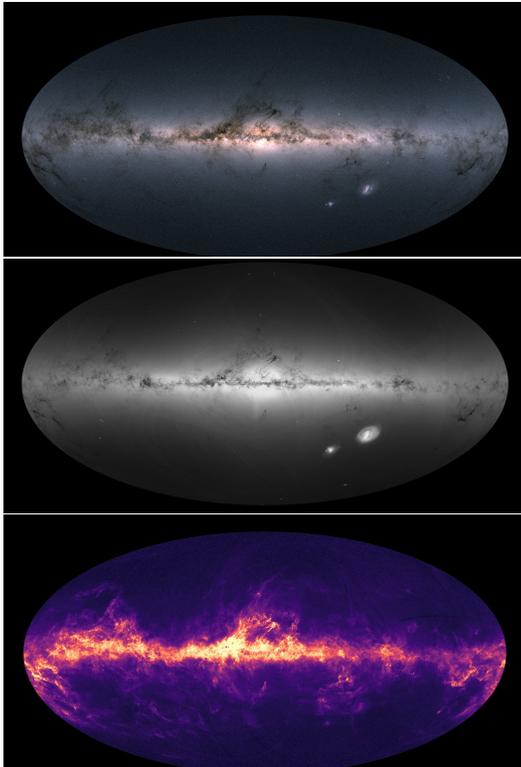
15%

Worldwide
Equity Trades

>1B+

Patient Records





-  POSITION
-  MOVEMENT
-  BRIGHTNESS



1 BILLION STARS



10 YEARS



1 MILLION GIGABYTES

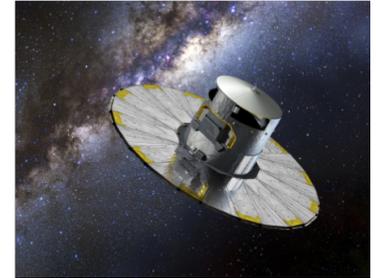
<https://sci.esa.int/web/gaia>



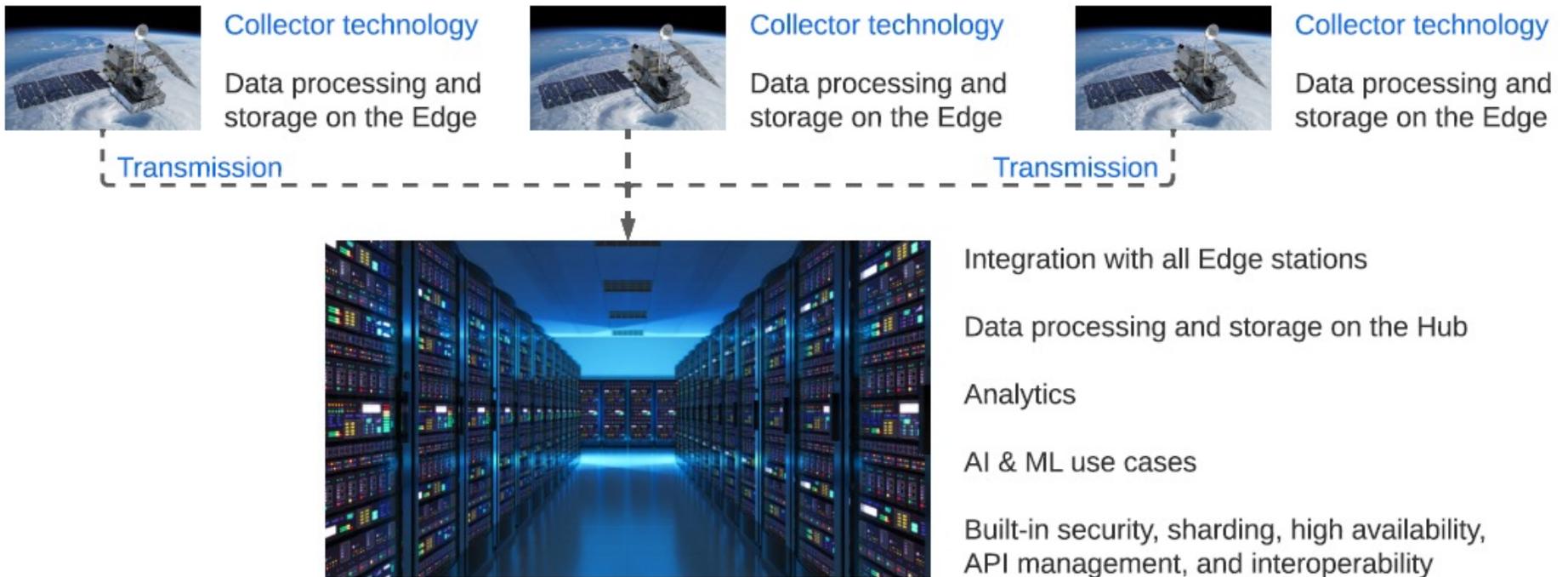


Why did ESA select InterSystems?

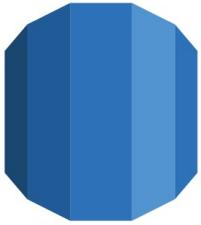
- 1) Our “High Touch Model” - Partnership
- 2) Performance - Data ingestion & query response
- 3) Speed - Time to capability/deployment
- 4) Safety - Risk reduction/program success



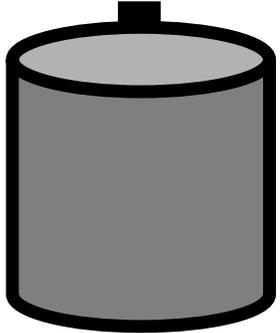
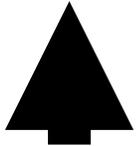
Database and Application Platform



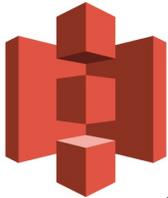
Relational



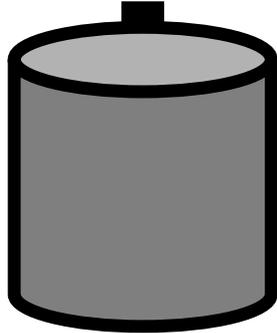
Amazon Aurora



Object



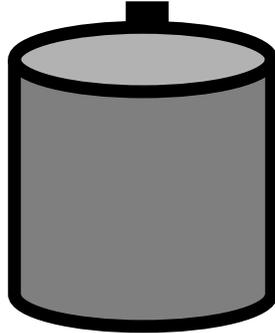
Amazon S3



In Memory



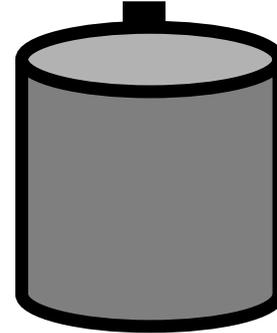
AWS
ElastiCache



Analytics



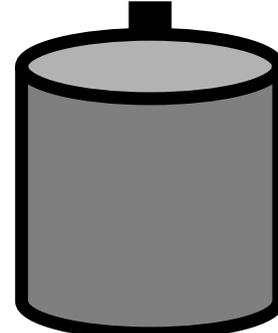
Amazon QuickSight



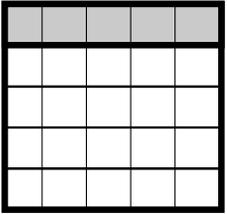
Columnar



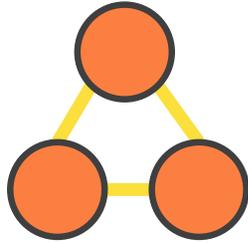
Amazon Redshift



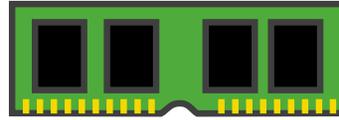
Relational



Object



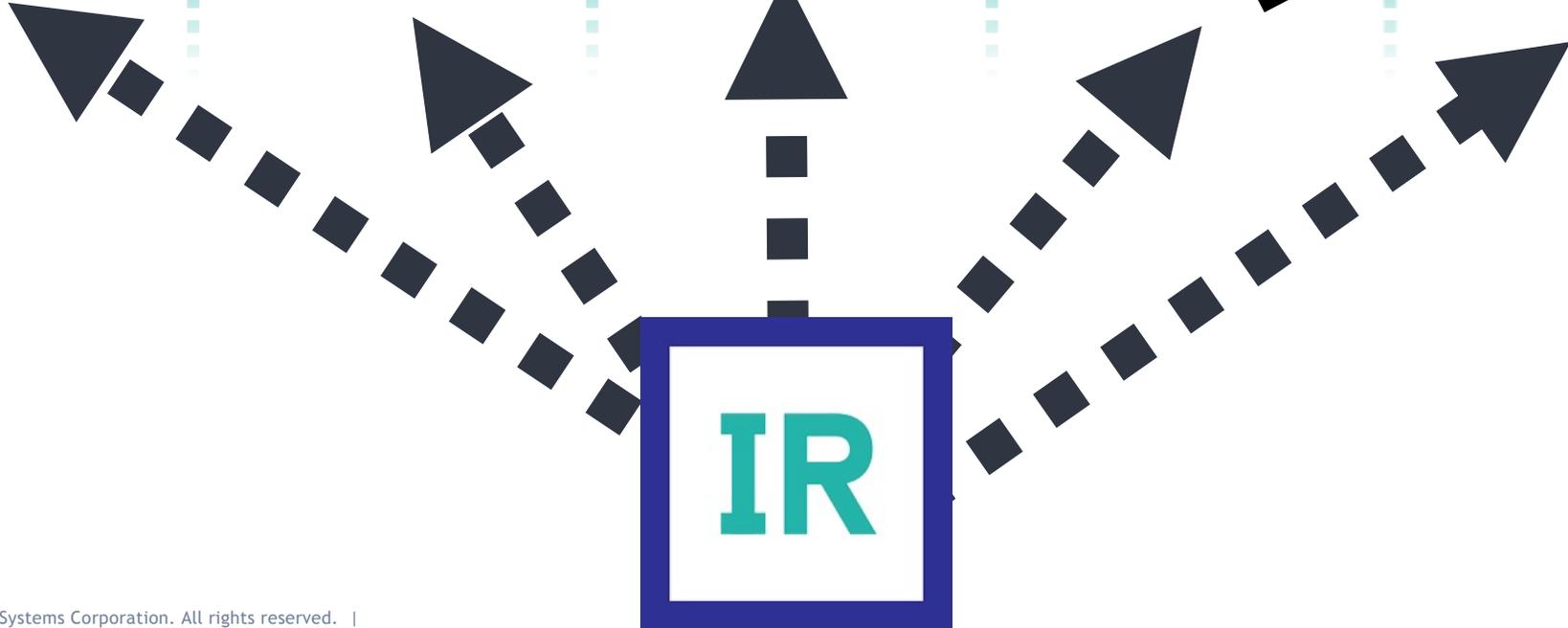
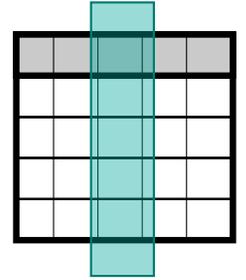
In Memory



Analytics

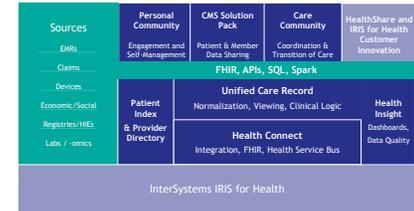


Columnar

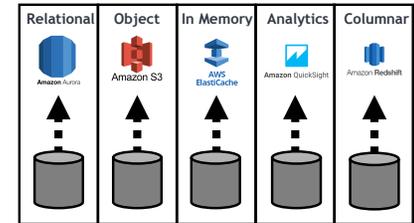
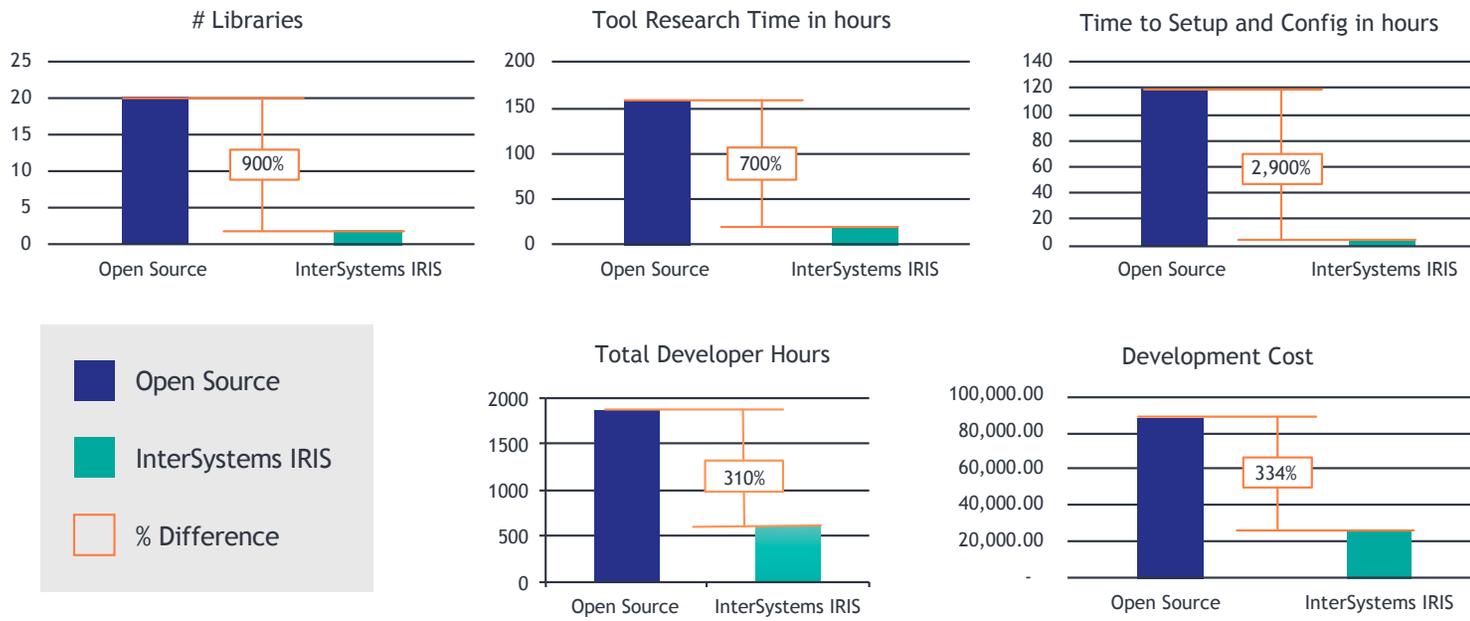


Comparison- Development time and cost

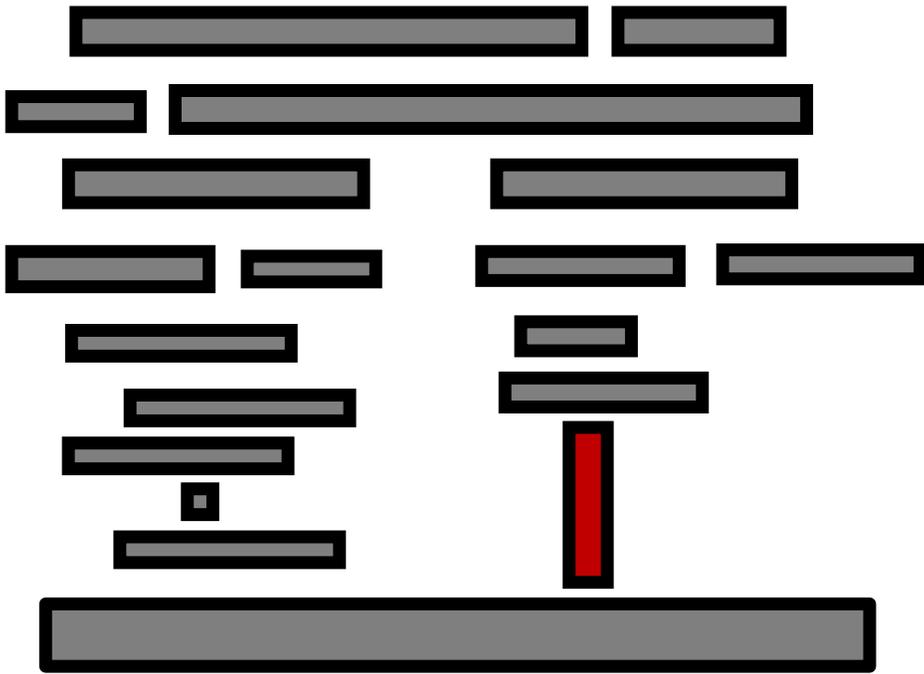
Building and delivering innovative solutions - Speed & Safety



VS



SOLUTION



SOLUTION

IR



Developing a Data-Intensive Application with Point Solutions vs. a Unified Data Platform: A Quantitative Comparison



Neuralytix

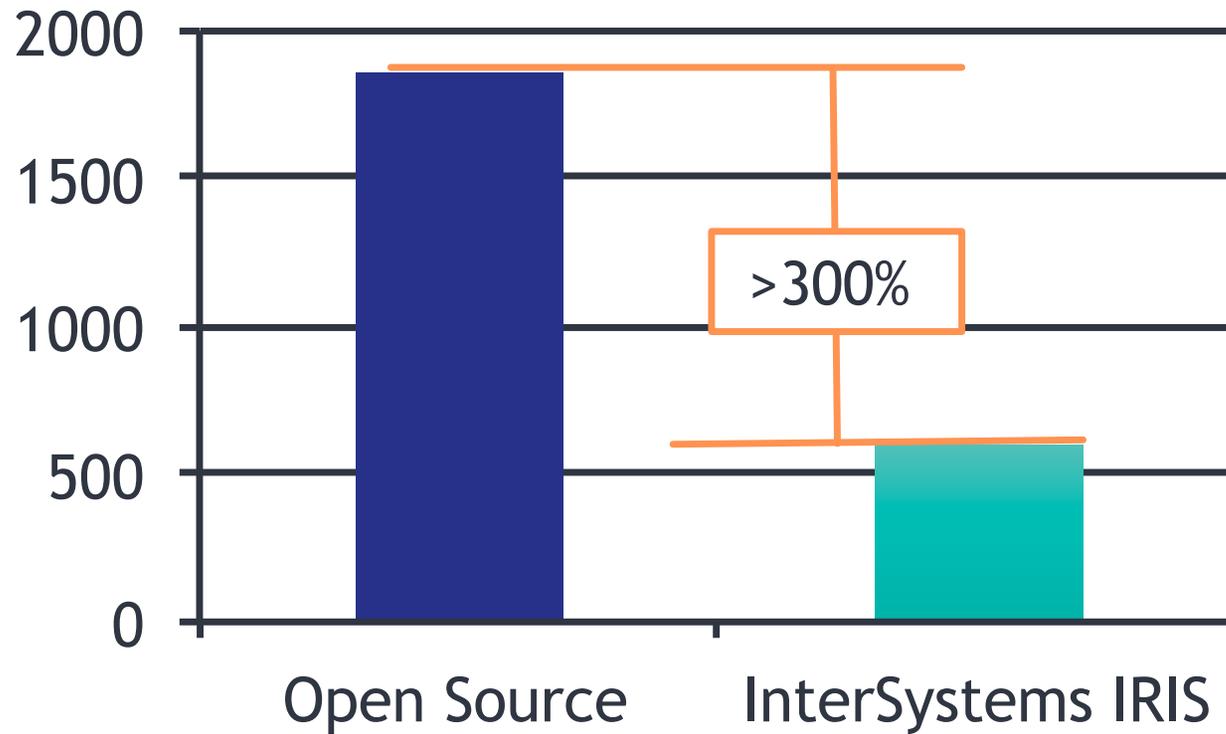
Executive Summary

Neuralytix interviewed two different development firms to compare how they developed the same data-intensive application using different approaches. QPAIR (www.qpair.io) used various point solutions to build the platform and application, whereas Aluna Group (www.alunagroup.com) built the application using **InterSystems IRIS Data Platform™**, a unified data platform that provides comprehensive data management, interoperability, and analytics capabilities in a single product. The result of our investigation was that Aluna Group was able to develop the application for a lower total cost while using fewer employees and fewer total hours.

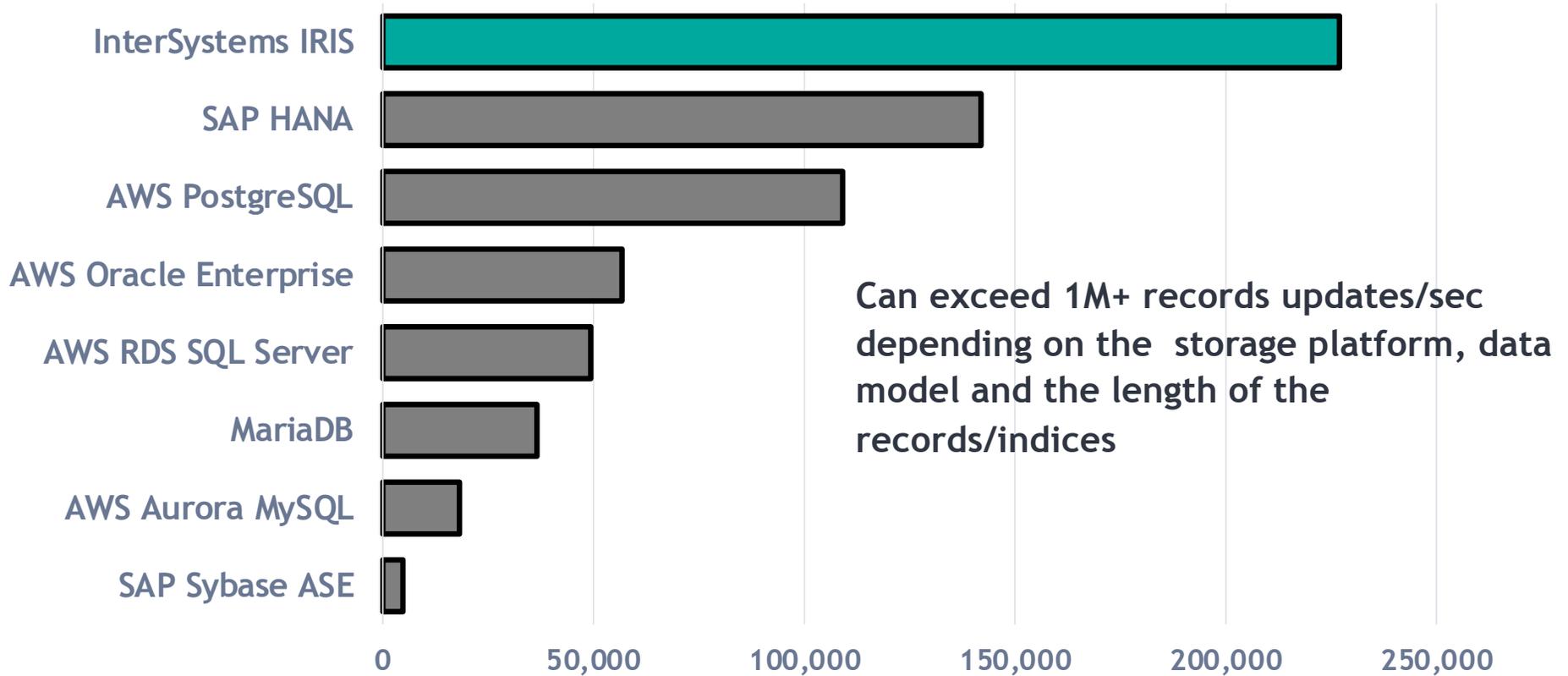
Introduction



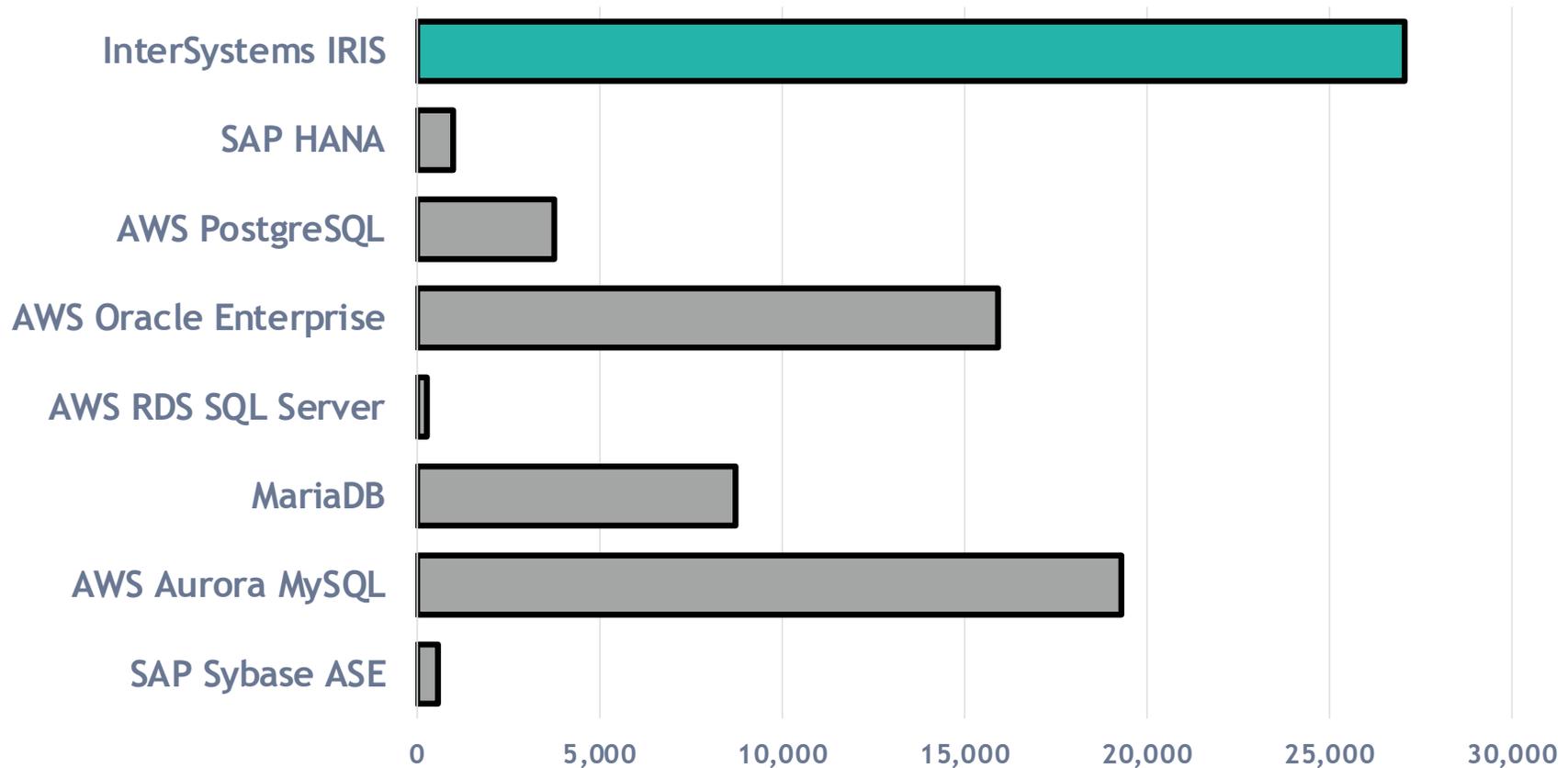
Time (and cost) to capability

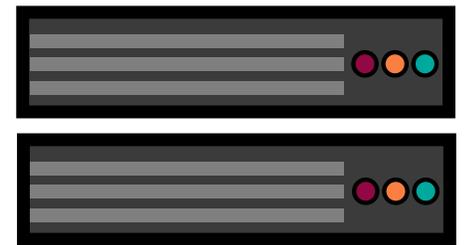


Insert Rate (Records / Second)



Query Rate (Queries / Second)





On-Prem

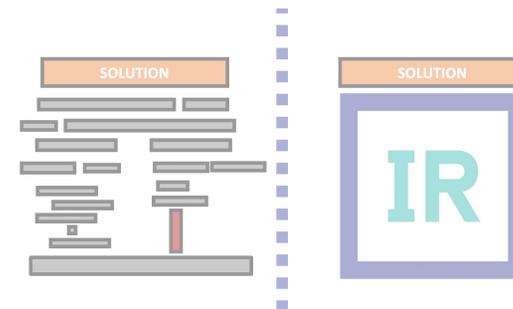
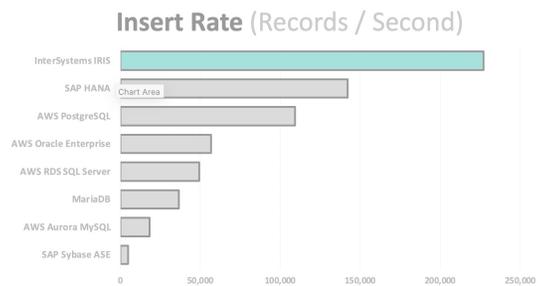
IRIS is Infrastructure Independent



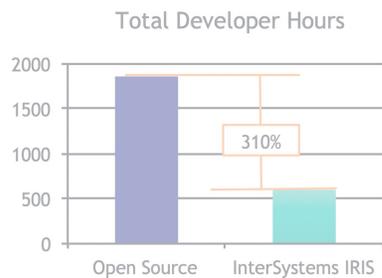
9x
Faster

30% of the
Resources





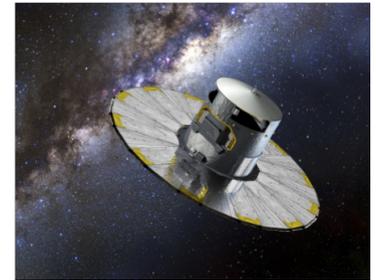
SPEED & SAFETY





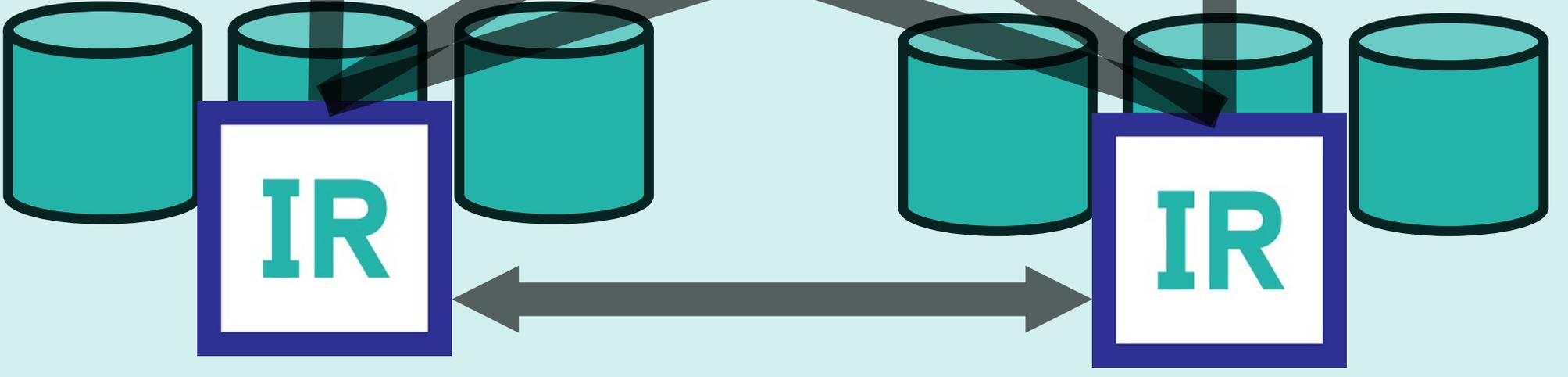
Why did ESA select InterSystems?

- 1) Our “High Touch Model” - Partnership
- 2) Performance - Data ingestion & query response
- 3) Speed - Time to capability/deployment
- 4) Safety - Risk reduction/program success



Thank you!

IR + IR + IR



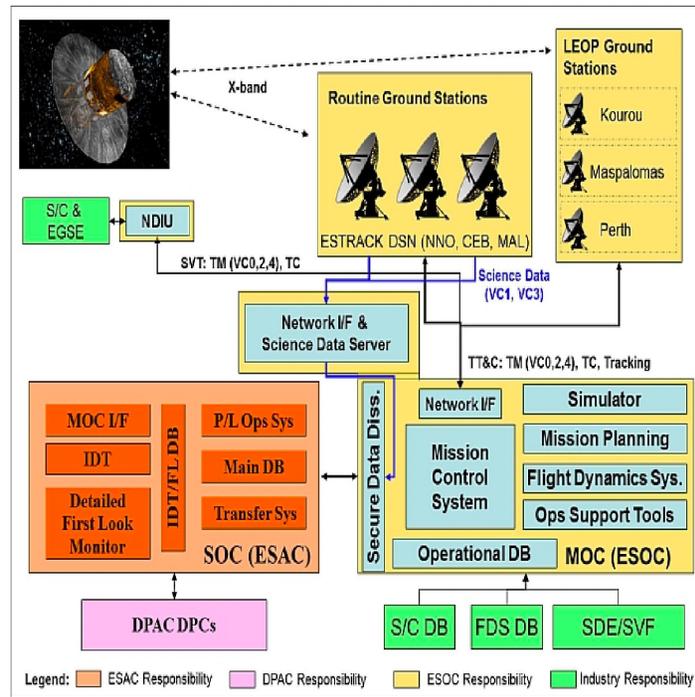


Figure 92: The Gaia Mission Control System (image credit: ESA)



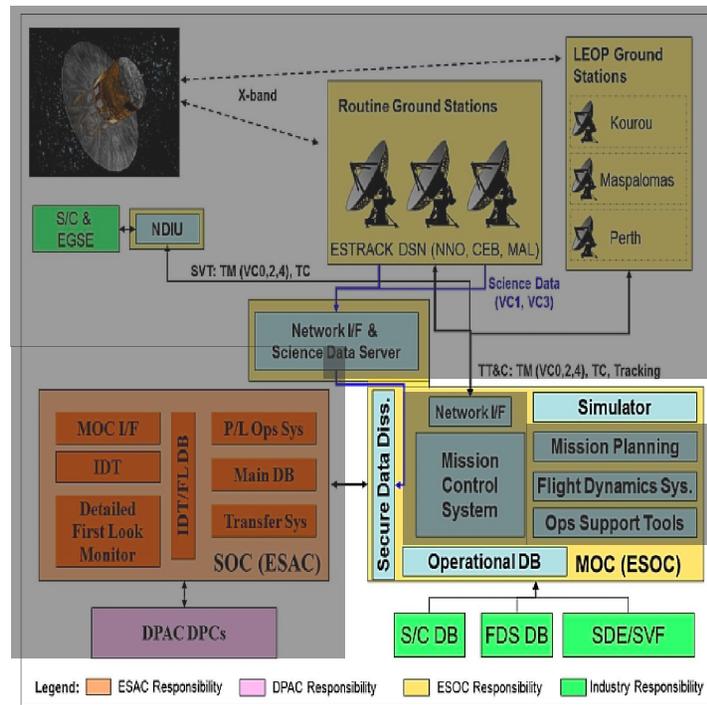


Figure 92: The Gaia Mission Control System (image credit: ESA)

